

Project: IH635 LBJ Freeway, Section 4 - West
Phase II Geotechnical Investigation - Proposed Boring Locations

	Boring	Approximate Station (ft)	Projected Depth/Length(ft)	Hole Orientation	Current Excavation Zone	Reason for Boring	Category*
1	2BW4L	80+75	70	Vertical	Cut & Cover	Stratigraphy; identify bearing stratum; fill in grid	1
2	2BW10L	105+30	50	Vertical	Cut & Cover	Stratigraphy; identify bearing stratum; fill in grid	1
3	2BW12L	113+50	45	Vertical	Cut & Cover	Stratigraphy; identify bearing stratum; fill in grid	1
4	2BW13R	117+70	55	Vertical	Cut & Cover	Stratigraphy; identify bearing stratum; fill in grid	1
5	2BW14R	121+75	50	Vertical	Cut & Cover	Stratigraphy; identify bearing stratum; fill in grid	1
6	2BW16L	130+00	50	Vertical	Cut & Cover	Stratigraphy; identify bearing stratum; fill in grid	1
7	2BW17R	134+00	45	Vertical	Cut & Cover	Stratigraphy; identify bearing stratum; fill in grid	1
8	2BW18L	138+00	45	Vertical	Cut & Cover	Stratigraphy; identify bearing stratum; fill in grid	1
9	2BW19R	142+30	50	Vertical	Cut & Cover	Stratigraphy; identify bearing stratum; fill in grid	1
10	2BW22L	154+60	55	Vertical	Cut & Cover	Stratigraphy; identify bearing stratum; fill in grid	1
11	2BW23R	158+75	45	Vertical	Cut & Cover	Stratigraphy; identify bearing stratum; fill in grid	1
12	2BW26L	171+00	50	Vertical	Cut & Cover	Stratigraphy; identify bearing stratum; fill in grid	1
13	2BW29L	183+25	85	Vertical	Cut & Cover	Stratigraphy; locate EFS in order to analyze extending mined tunnel to the west; fill in grid	1
14	2BW29R	183+25	85	Vertical	Cut & Cover	Stratigraphy; locate EFS in order to analyze extending mined tunnel to the west; fill in grid	1
15	2BW30R	187+40	90	Vertical	Cut & Cover	Stratigraphy; locate EFS in order to analyze extending mined tunnel to the west; fill in grid	1
16	2T1L	194+75	135	45 deg East	Portal	Evaluate fracture frequency at potential western portal location	2
17	2T3L	197+50	125	Vertical	C&C or Tunnel	Stratigraphy; locate EFS in order to analyze extending mined tunnel to the west	1
18	2T5L	204+00	115	Vertical	C&C or Tunnel	Stratigraphy; locate EFS in order to analyze extending mined tunnel to the west; fill in grid	1
19	2T6aR	208+00	35	Vertical	C&C or Tunnel	Adjacent to T6R - to install piezometer to assess groundwater in overburden	1
20	2T7R	212+00	115	Vertical	C&C or Tunnel	Stratigraphy; locate EFS in order to analyze extending mined tunnel to the west; fill in grid	1
21	2T8L	216+10	125	Vertical	C&C or Tunnel	Stratigraphy; locate EFS in order to analyze extending mined tunnel to the west; fill in grid	1
22	2T8aL	219+53	90	45 deg East	Portal	Fracture frequency through potential WB mined tunnel portal - delete if western portal confirmed	2
23	2T9R	220+30	135	Vertical	Cut & Cover	Stratigraphy; locate EFS in order to analyze extending mined tunnel to the west; fill in grid	1
24	2T10L	225+50	120	Vertical	Tunnel	Evaluate to tunnel grade for deeper tunnel alternative; further define bentonite marker bed	2
25	2T10aR	226+15	85	45 deg East	Tunnel/Portal	Fracture frequency through potential EB mined tunnel portal	2
26	2T11R	228+60	120	Vertical	Tunnel	Stratigraphy; further define bentonite marker bed; fill in grid	1
27	2T19aC	259+50	130	Vertical	Tunnel	Further define bentonite marker bed; evaluate deeper tunnel alt.	2
28	2T20L	261+78	150	45 deg East	Tunnel	Define faulting; further define bentonite marker bed	2
29	2T20R	264+00	150	Vertical	Tunnel	Define faulting; further define bentonite marker bed; locate EFS;	1
30	2T21aC	267+00	130	Vertical	Tunnel	Define faulting; further define bentonite marker bed	1
31	2T21R	269+15	150	45 deg West	Tunnel	Define faulting; further define bentonite marker bed	2
32	2T22aC	271+00	130	Vertical	Tunnel	Define faulting; further define bentonite marker bed	1
33	2T23aL	275+50	110	Vertical	Tunnel	Identify fault margin; further define bentonite marker bed	1
34	2T31L	306+50	125	Vertical	Tunnel	Evaluate deeper tunnel alternative; further define bentonite marker bed and second bentonite bed	2
35	2T31R	307+00	120	Vertical	Tunnel	Evaluate deeper tunnel alternative; further define bentonite marker bed and second bentonite bed	2
36	2T33R	314+00	120	Vertical	Tunnel	Evaluate deeper tunnel alternative; further define bentonite marker bed and second bentonite bed	2
37	2T34L	317+50	120	Vertical	Tunnel	Evaluate deeper tunnel alternative; further define bentonite marker bed and second bentonite bed	2
38	2T35L	320+00	150	45 deg West	Tunnel/Portal	Fracture frequency through WB mined tunnel portal	2
39	2T35R	320+00	150	45 deg West	Tunnel/Portal	Fracture frequency through WB mined tunnel portal	2
40	2T36R	331+00	100	Vertical	Tunnel	Evaluate potential eastward extension of mined tunnel	2
41	2T36L	334+00	100	45 deg West	Tunnel/Portal	Fracture frequency through mined tunnel portal for potential eastward extension - WB tunnel	2

* Category Description

1. Borings that should be drilled now and that will assist in future PcE team decisions.
2. Borings that require discussion among PcE team members. Plan to confirm plans for these by 12/10/2004